

Listing of the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

1-38 (Cancelled).

39 (Currently amended): An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of:

- (a) ATTATAC;
- (b) TCTATAC;
- (c) TTTATAT;
- (d) TTTATGC;
- (e) TGTATAC; and
- (f) TTAATAC;

wherein the nucleotide sequence is located within a recombination site recognized by the integrase recombination protein.

40 (Previously presented): The isolated nucleic acid molecule of claim 39, which comprises two or more recombination sites.

41 (Previously presented): The isolated nucleic acid molecule of claim 39, wherein the recombination site is located between a transcriptional regulatory sequence and an open reading frame, wherein the transcriptional regulatory sequence and open reading frame are operably linked.

42 (Previously presented): The isolated nucleic acid molecule of claim 41, wherein the transcriptional regulatory sequence is a promoter.

43 (Previously presented): The isolated nucleic acid molecule of claim 39, which is a vector.

44 (Previously presented): The isolated nucleic acid molecule of claim 43, wherein the vector is a plasmid.

45 (Previously presented): The isolated nucleic acid molecule of claim 39, which further comprises at least one origin of replication.

46 (Previously presented): The isolated nucleic acid molecule of claim 45, which comprises at least two origins of replication.

47 (Previously presented): The isolated nucleic acid molecule of claim 45, which comprises at least one origin of replication that allows for replication of the nucleic acid molecule in a prokaryotic cell.

48 (Previously presented): The isolated nucleic acid molecule of claim 47, wherein the prokaryotic cell is an Escherichia coli cell.

49 (Currently Amended): An isolated host cell comprising one or more the isolated nucleic acid molecules of claim 39.

50 (Withdrawn): A method for generating a nucleic acid molecule with one or more recombination sites, the method comprising amplifying the nucleic acid molecule in the presence of two or more primers which hybridize to the nucleic acid molecule, wherein one or more of the primers comprises a nucleotide sequence selected from the group consisting of:

- (a) ATTATAC;
- (b) GTATAAT;
- (c) TCTATAC;
- (d) GTATAGA;
- (e) TTTATAT;
- (f) ATATAAA;
- (g) TTTATGC;
- (h) GCATAAA;
- (i) TGTATAC;
- (j) GTATACA;
- (k) TTAATAC; and
- (l) GTATTAA.

51 (Withdrawn): The method of claim 50, where the nucleic acid molecule is amplified by the polymerase chain reaction.

52 (Withdrawn): A method for recombining two or more nucleic acid molecules, the method comprising:

(a) preparing a reaction mixture comprising the two or more nucleic acid molecules and at least one recombination protein, and
(b) incubating the reaction mixture under conditions sufficient to cause recombination between the two or more nucleic acid molecules, wherein each of the nucleic acid molecules comprises at least one nucleotide sequence selected from the group consisting of:

- (a) ATTATAC;
- (b) GTATAAT;
- (c) TCTATAC;
- (d) GTATAGA;
- (e) TTTATAT;
- (f) ATATAAA;
- (g) TTTATGC;
- (h) GCATAAA;
- (i) TGTATAC;
- (j) GTATACA;
- (k) TTAATAC; and
- (l) GTATTAA.

53 (Withdrawn): The method of claim 52, wherein the at least one nucleotide sequence is located in said recombination sites are att sites.

54 (Withdrawn): The method of claim 52, wherein the at least one recombination protein is encoded by bacteriophage lambda.

55 (Withdrawn): The method of claim 52, wherein said at least one recombination protein is selected from the group consisting of Int, IHF, Xis and Cre.

56 (Withdrawn): The method of claim 52, wherein said at least one recombination protein is selected from the group consisting of Int, IHF and Xis.